

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. – 24. (Cancelled).
25. (Currently amended) A method of ~~prevention~~ incidence risk reduction of pathologies associated with androgen signaling, which comprises orally administering to a subject (mammal or non-mammal, human or pet including birds and fish, or mammal or non-mammal farm animal) at elevated risk for pathologies associated with androgen signaling ~~in need of such prophylaxis~~ an effective amount of lycopene to reduce androgen signaling.
26. (Original) A method as in claim 25 wherein about 0.25 mg to about 50 mg of lycopene are administered per day to a human adult.
27. (Original) A method as in claim 26 wherein about 1 mg to about 30 mg of lycopene are administered per day to a human adult.
28. (Previously presented) A method as in claim 25 wherein, additionally, about 15 mg to about 600 mg of vitamin E are administered per day to a human adult.
29. (Previously presented) A method as in claim 25 wherein, additionally, about 50 to about 1000 mg of vitamin C are administered per day to a human adult.
30. (Currently amended) A method of ~~preventing~~ incidence risk reduction of non-cancerous symptom and/or pathologies sensitive to lycopene which comprises administering to a mammal, mammal or non-mammal pets including birds and fish, or mammal or non-mammal farm animal at elevated risk for pathologies associated with androgen signaling ~~in need of such prophylaxis~~ an amount of lycopene which leads to a reduction of androgen signaling.
31. (Original) The method according to claim 30, wherein an amount of lycopene is

32. (New) A method of prophylactic nutritional supplementation of healthy subjects to reduce the risk of non-cancerous symptoms or pathologies associated with androgen signaling comprising orally administering an effective amount of lycopene.
33. (New) A method according to Claim 32 wherein the symptoms or pathologies are selected from the group consisting of:
- polycystic ovary symptom, amenorrhea, hyperandrogenic chronic anovulation, female infertility, ovarian hyperstimulation syndrome, amenorrhea, oligomenorrhea, accumulation of abdominal fat, menstrual disorder, hyperandrogenism, congenital adrenal hyperplasia and stress induced imbalance of androgen signaling.
34. (New) A method according to Claim 32 wherein about 0.25 mg to about 50 mg of lycopene are administered per day to a human adult.
35. (New) A method as in claim 32 wherein about 1 mg to about 30 mg of lycopene are administered per day to a human adult.
36. (New) A method as in claim 33 wherein, additionally, about 15 mg to about 600 mg of vitamin E are administered per day to a human adult.
37. (New) A method as in claim 33 wherein, additionally, about 50 to about 1000 mg of vitamin C are administered per day to a human adult.

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